

ABSTRACT OF THE INVENTION

The method of the present invention selects an access point with the lowest load, which will reply to the probe-request packet sent by a station, and then constructs an association between the station and the access point with the lowest load so as to balance the load of the plurality of access points. To select the access point with the lowest load, a master access point sends a load collection packet, and the access points with the same service set identifier send a load index packet when receiving the load collection packet. Afterward each access point performs a load comparison procedure to select the access point with the lowest load. The access point with the lowest load will turn on the probe-response function, and the other access point will turn off the probe-response function.